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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/814,036	04/01/2004	Lian-Huang Chern	BP4003-L12-P3	6273
7590 08/18/2005			EXAMINER	
Lian-Huang Chern 235 Chung-Ho Box 8-24 Taipei, TAIWAN			LEO, LEONARD R	
			ART UNIT	PAPER NUMBER
			3753	
DATE MAILED: 08/18/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/814,036

Applicant(s)

CHERN, LIAN-HUANG

Examiner

Leonard R. Leo

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Specification

The disclosure is objected to because of the following informalities: the section heading on line 15 of page should read -- Background of the Invention --.

Appropriate correction is required.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the “plurality of heat dissipating sheets which are arranged with a spiral shape” in claim 9 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will

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be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 4-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Lee (Figure 2). Regarding claims 4-5, Figures 1 and 3 of Kojima et al discloses semi-round and triangular shapes, respectively.

Claims 1-3 and 5-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Kojima et al (Figure 15a-d). Regarding claim 2, Kojima et al (column 6, lines 28-32) discloses aluminum or copper. Regarding claims 3 and 5, Kojima et al (column 10, lines 27-37) discloses rectangular and triangular shapes.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kojima et al in view of Hatada et al.

Kojima et al discloses all the claimed limitations except a plurality of parallel spaced heat dissipating sheets.

Hatada et al discloses a heat sink (Figure 16) comprising a heat conductive base 22 and a plurality of parallel spaced heat dissipating sheets 23 (Figures 34-35) for the purpose of achieving a desired heat exchange.

Since Kojima et al and Hatada et al are both from the same field of endeavor and/or analogous art, the purpose disclosed by Hatada et al would have been recognized in the pertinent art of Kojima et al.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to employ in Kojima et al a plurality of parallel spaced heat dissipating sheets for the purpose of achieving a desired heat exchange as recognized by Hatada et al.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kojima et al in view of Arai et al.

The device of Kojima et al lacks a spiral shape.

Arai et al discloses a heat sink (Figures 1-2 and 6) comprising a heat conductive base 10 and a spiral heat dissipating sheet for the purpose of achieving a desired heat exchange.

Since Kojima et al and Arai et al are both from the same field of endeavor and/or analogous art, the purpose disclosed by Arai et al would have been recognized in the pertinent art of Kojima et al.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to employ in Kojima et al a spiral heat dissipating sheet for the purpose of achieving a desired heat exchange as recognized by Arai et al.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kojima et al in view of Williams.

The device of Kojima et al lacks a concentric shape.

Williams discloses a heat sink comprising a heat conductive base and a plurality of concentric heat dissipating rings 18, 20, 22 for the purpose of achieving a desired heat exchange.

Since Kojima et al and Williams are both from the same field of endeavor and/or analogous art, the purpose disclosed by Williams would have been recognized in the pertinent art of Kojima et al.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to employ in Kojima et al a plurality of concentric heat dissipating rings for the purpose of achieving a desired heat exchange as recognized by Williams.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonard R. Leo whose telephone number is (571) 272-4916. The examiner can normally be reached on Monday thru Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Mancene can be reached on (571) 272-4930. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



LEONARD R. LEO
PRIMARY EXAMINER
ART UNIT 3753

August 17, 2005